

# Bostwick



## ILLUSTRATION

Planetarium of Benjamin  
Franklin Institute, Philadelphia  
Photograph by Miss Gladys Muller

### Architects

John T. Windrim, Philadelphia, Pa.

### General Contractors

United Engineers & Constructors  
Philadelphia, Pa.

### Plastering Contractors

George Katz & Co.  
Philadelphia, Pa.

THE  
*Bostwick*  
STEEL LATH COMPANY

NILES, OHIO — Eastern Warehouse, PHILADELPHIA, Pa.

# STEEL LATH



# THE Bostwick STEEL LATH COMPANY

Since 1890

## Specialists in Metal Lath and Accessories

Nearly half a century of continuous manufacture of metal lath and accessories stands behind The Bostwick Steel Lath Company's reputation as one of the foremost manufacturers in the world.

Bostwick Metal Lath was first made in 1890. Thoroughly tested by time, it enjoys a most successful record for durability and satisfactory service in outstanding buildings of every type.

All Bostwick Lath is made and sold in accordance with Simplified Practice Recommendation R3-36 of the U. S. Department of Commerce, and Federal Specification No. QQ-B-101-B.

### Bostwick Co-operation with Architects and Specification Writers

Bostwick's staff of experts stands ready to assist you at all times. Inquiries addressed directly to our main office will receive prompt attention. We provide standard specifications for all types of Bostwick Metal Lath or Partition construction and will be glad to supply information about actual installations of every description.

### Bostwick Facilities for National Distribution

Responsible dealers in Bostwick products are conveniently located in trading centers throughout the country. They carry adequate stocks for the usual needs of contractors and builders. Twenty-four-hour service is maintained in factory shipments. Bostwick dealers are responsive to inquiries for information and prompt in rendering service.

(Right) Clipping Bostwick Channelform Reinforcement in floor slab construction.

(Center) Use of Super-Bostwick "Truss-Loop" Lath in partition, floor, and ceiling applications in Senior School, Jamestown, N. Y.



## BOSTWICK METAL LATH Pages 4 to 9

### The Improved Super-Bostwick "Truss-Loop" Lath

The best known metal lath, a standard product with an unbroken record of successful permanent installations for 47 years. Gives lowest finished plaster cost of any metal lath; exceptionally rigid, easy to handle. Excellent, used with wood construction or over steel channels (see pages 4 and 5), it also may be used as reinforcement for light slab construction (see page 6) or applied directly over old ceilings (see page 14).

### Bostwick Channelform Lath

The old reliable "Truss-Loop" Lath, with a  $\frac{3}{4}$ -in. channel shape formed every  $\frac{3}{4}$  inches running parallel the full length of the sheet, Bostwick Channelform Lath is specially designed and manufactured for use as reinforcement in light slab construction (see page 6). Characteristics: great stiffness and rigidity, giving high supporting strength, preventing waste of concrete, and retaining grout.

### Bostwick Junior Expanded Lath

A general purpose lath, this is a small mesh ( $\frac{1}{8}$  in.) lath of the diamond type. Good plaster keying qualities, economi-

cal, easy to handle. Unexcelled for use in 2-in. partition work. Furnished with an offset or crimp, it makes an ideal self-furring lath. Several weights (see page 7).

### Bostwick Boss-Rib Metal Lath

In this one lath are combined the qualities of a flat rib type of lath and a small mesh expanded lath. Economical, rigid, a plaster saver, it is a self-furring type, ideal for all usual purposes. In several weights (see page 8).

### Bostwick Vee-Rib Metal Lath

A standard flat-rib expanded metal lath. Unusually stiff for a flat-rib lath, it is very economical to plaster. In several weights (see page 9).

### Bostwick Rib Expanded Lath— $\frac{3}{8}$ -In. and $\frac{3}{4}$ -In. Rib

Preferred on wide spacings, the Bostwick Rib Expanded Lath has great rigidity. Particularly suited for reinforcement in floor construction or in suspended ceilings. We do not recommend the  $\frac{3}{4}$ -in. Rib for plaster base. Two sizes, a variety of weights (see page 9).

## METAL LATH ACCESSORIES—Page 14

### Bostwick Corner Bead

Bostwick offers all types of corner bead—Truss-Wing, Expanded, Bull Nose, Wide Flange and Scalloped. Truss-Wing offers exceptional qualities of rigidity and workability. (See photographs on page 14).

### Bostwick Picture Molding

Invisible except for hook opening when installed, Bostwick Picture Molding is a simple, easy-to-handle molding for use in all types of buildings (see page 14).

### Metal Base Bead

Efficient for heavy service or uneven grounds, firm holding power, true alignment. A typically dependable Bostwick product (see page 14).

### Bostwick Wall Plug

The ideal device for attaching interior trim to masonry walls. Supports weight without flattening, holds nails permanently (see page 14). A standard specification for all Federal Buildings under Supervising Architect of the U. S. Treasury Department.





*Under side of Bostwick  
Channelform Floor Slab  
Reinforcement after  
pouring*



*Plastering ceiling over  
Super-Bostwick "Truss-  
Loop" Lath*

## BOSTWICK STEEL STUDS Pages 10 to 13

### Designed Especially for Super-Bostwick Partition Work

Bostwick offers a welded steel stud which, installed with Super-Bostwick "Truss-Loop" Lath, forms an unexcelled partition system (see below). The stud is made up of cold rolled 16-gauge steel angles, welded back to back, with horizontal flats ladder fashion, welded to the angles. The studs are easy to erect and form a rigid, permanent, economical partition frame.

### Advantages of the Stud

The Bostwick Steel Stud is heavier than any comparable product—800 lbs. per

1000 ft. This makes for superior rigidity. Yet it is economical. Lath may be nailed to the stud, as well as tied. Ground or screed strips may be nailed over the lath.

### Workability

Installation of cabinet work, wainscoting, blackboards, etc., is facilitated by the use of Bostwick Steel Studs, as the fixtures may be nailed directly to the studs. Thus the Bostwick Stud combines the adaptability of a wood stud with the unquestioned advantages of steel.

The open space inside the partition wall greatly simplifies installation of pipes, conduits and wiring.

## BOSTWICK SYSTEM PARTITIONS Pages 11 to 13

### Gives True Surface Ease of Erection

The combination of Bostwick Steel Studs and Super-Bostwick "Truss-Loop" Lath forms a partition system that is straight in alignment, economical, firesafe and permanent. All finished surfaces will be true and exceptionally free from cracks and strain. Exceptionally high structural strength.

Erection is simple in the extreme, the lath and studs being mutually workable and adaptable.

### Has Sound-Deadening Qualities

The completed partition is considerably

more effective in deadening sound than a wood stud or masonry partition of equal thickness. And its open-web construction makes it easy to install insulation for special requirements.

### Wide Field of Use

In all high-grade structures Bostwick System Partitions offer incomparable advantages. Smooth, rigid, true walls; great rigidity; ease of installation, moderate cost. For a large class of commercial, school, apartment and public structures, the system solves the partition problem more advantageously than it has ever been solved before.

## BOSTWICK OFFERS YOU THE MOST COMPLETE LINE

Bostwick offers the architect a metal lath to meet every lathing requirement and a complete line of accessories for every type of installation. Among these are included (a) backing and reinforcement of plaster for interior walls and ceilings, (b) for exterior stucco, (c) reinforcement and centering of light concrete floors and roof slabs, (d) cement reinforcement for tile, marble and other special interior treatments, (e) support and reinforcement of 2-in. partitions, as

well as steel studs for hollow partitions, (f) for drop ceiling construction, (g) fire resisting treatment at danger points in wood construction, (h) crack resistance in the angles of wood-lathed walls and ceilings, (i) fire resisting reinforcement for concrete around steel members in steel construction.

An outstanding firm, offering a complete line of products, that have been thoroughly tested through the years.

## PARTIAL LIST OF RECENT

# Bostwick

MATERIALS  
INSTALLATIONS

The Tides Hotel, Miami, Fla.—Murray L. Dixon, Archt., Miami, Fla. Profert-Wien, Constr. Co., Miami, Fla.

Apartment Bldg. Meridian St., Indianapolis, Ind.—E. G. Bauer & Son, Gen'l Contr.

Court House, Elizabethtown, Ky.—Thos. J. Nolan, Archt., Louisville, Ky. Auditorium, Atlantic City, N. J.—Lockwood, Greene Engineers, Inc., Archts., New York City. M. B. Markland, Gen'l Contrs., Atlantic City, N. J.

Steel Pier, Atlantic City, N. J.—Christopher Clift, Archt., Atlantic City, N. J. Wm. F. Koelle, Archt., Philadelphia, Pa. Seward G. Dobbins, Archt., Ocean City, N. J. John Allen, Gen'l Contr., Woodbury, N. J.

C. Fred Johnson School, Johnson City, N. Y.—Walter H. Whitlock, Archt., Binghamton, N. Y. Benjamin Klein, Gen'l Contr. J. Frank Parsons, Plst. Contr.

Library Addition and Pharmacy Bldg., Ohio State University, Columbus, Ohio—R. H. Evans Company, Gen'l Contrs.

Court House, Fremont, Ohio—C. H. Shively, Archt. Jacob Swint, Plst. Contr. Steinle-Wolf, Gen'l Contrs.

Phoebe Deaconess Home, Allentown, Pa.—W. H. Gangewere & Co., Gen'l Contrs.

Fountain Hill School Bldg., Bethlehem, Pa.—Lovelace & Spillman, Archts., Bethlehem, Pa. M. E. Fulmer, Gen'l Contr. Duggan & Marcon, Inc., Plst. Contr.

Hooker-Fulton Bldg., Bradford, Pa.—Lawrie & Green, Archts., Harrisburg, Pa. Three School Jobs, Bradford, Pa.—Frederick A. Fensel, Archt.

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New Castle, Dela. Lake Placid, N. Y.  
Farmington, Me. Ambridge, Pa.  
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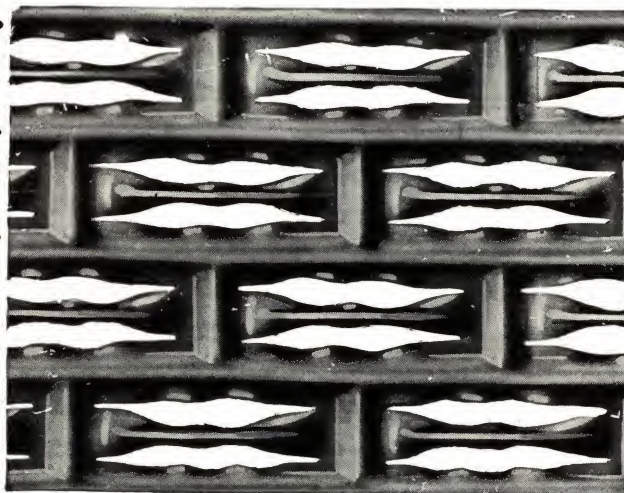
# THE *Improved* SUPER-BOSTWICK "TRUSS-LOOP" LATH

**Size and Weight**—Super-Bostwick "Truss-Loop" Lath comes in standard 24x96-in. steel sheets. Weight: 4.5 lbs. per sq. yd. painted; 5.25 lbs. per sq. yd. galvanized. Nine sheets to the bundle, equivalent to 16 sq. yds.

This is the original Bostwick Lath, improved to a point where it is in a class by itself as an all-purpose metal lath. Longitudinal ribs and transverse corrugations give it extraordinary stiffness both in length and width. It has maximum reinforcement qualities and gives the lowest finished plaster cost of any permanent fireproof plaster base.

Super-Bostwick "Truss-Loop" has long since established itself as the ideal lath, whether used with wood construction or applied over metal channels.

Ease of installation is an important factor. "Truss-



Loop" can be nailed or wired in minimum time. Stretching is unnecessary. The lath is exceptionally rigid under the plasterer's trowel even when supports are as wide spaced as 24 in. on centers. Plastering time is reduced, as scratch and brown coats can be applied without moving the scaffold.

The distinctive formation of Super-Bostwick "Truss-Loop" Lath gives the plaster a triple key, further adding to the rigidity of the finished wall.

## **Specifications** — Bost-

wick has complete specifications available for all installations of Super-Bostwick "Truss-Loop" Lath. Architects are invited to write for them.

For Super-Bostwick "Truss-Loop" used in light slab construction see page 6.

For application over old ceilings see page 14.

## **6 PRACTICAL ADVANTAGES of Super-Bostwick "Truss-Loop" Lath**

(1) Saves Labor, because it is so rigid and stiff that the plaster sticks on first application; each sheet can be easily handled by one man; no deflection in the lath surface which would necessitate retroweling.

(2) Saves Yardage, of lath by a nesting rib which automatically laps the edge of each sheet, thus eliminating waste of lath by over-lapping.

(3) Saves Furring Strips, by placing loops inward, which gives space for the plaster key.

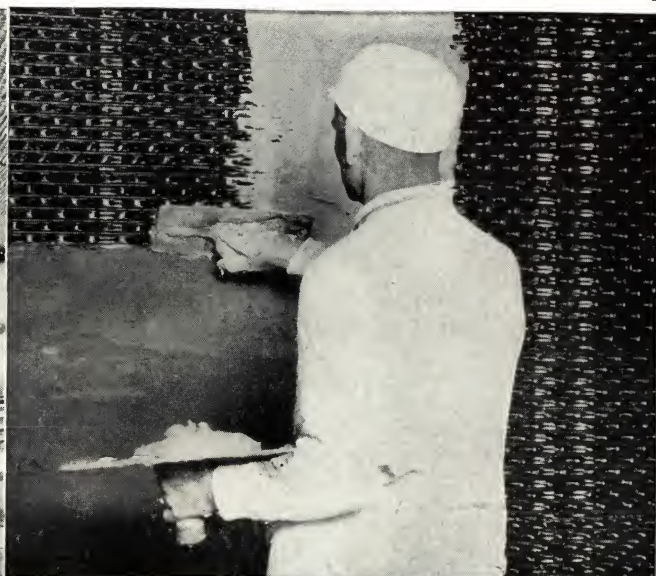
(4) Saves Lumber, because its strength permits working wider centers—from 12 or 16-in. to 24-in., thus requiring fewer studs; lath will not sag with the weight of mortar and is exceptionally rigid under the trowel.

(5) Saves Plaster, because the triple-bond plaster-key grips all the mortar, allowing no waste.

(6) Saves Time, because it has a flat non-giving surface, thus making for faster troweling, and the scratch and brown coats can be applied from the same scaffold.



Auditorium Interior—Lath is Super-Bostwick "Truss-Loop" Lath



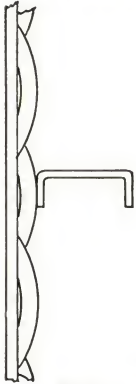
Super-Bostwick "Truss-Loop" Lath is the ideal plaster base because it does not yield under the trowel; hence, there is no vibration or displacement of the plaster as he proceeds from bay to bay



Super-Bostwick "Truss-Loop" Lath properly erected and plastered makes a fire-resisting treatment for steel pillars



# Directions for Applying Super-Bostwick "Truss-Loop" Lath



## Apply Over Specified Centers

Super-Bostwick "Truss-Loop" may be applied over 12, 16, 19 or 24-in. centers, as specified by the architect. Note that Super-Bostwick is suitable for application over wider spacings than most laths.

## Place Loops Against Supporting Channels

Because of Super-Bostwick's self-furring qualities and ease in wiring to channels, we recommend that the lath be installed with loops against the supports.

## How to Protect Interior Angles

The corner should first be "shoed" with either Bostwick Cornerite or with expanded lath bent in an angle running lengthwise of the sheet. After the "shoe" is applied, it is satisfactory practice to butt the lath in all interior angles.

## Use Least Possible Overlap

At the side of the sheet, lap only the width of  $\frac{1}{8}$ -in. nesting rib. At ends, overlap just enough for secure fastening.

## Break Joints by Staggering Sheets

Start every other course with a half sheet, so that one vertical joint does not come under another.

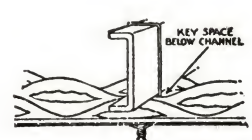
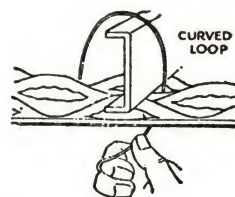
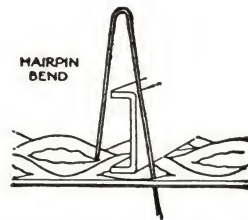
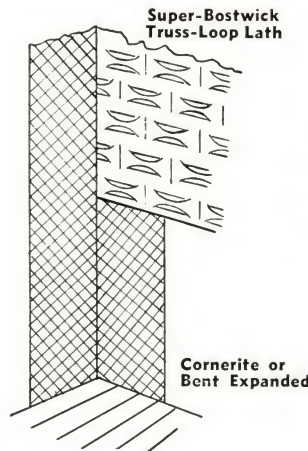
Nail with 1- $\frac{1}{4}$ -in. flat-head roofing nails or 6 penny nails every 4 in. across the lath.

## Fasten Wiring with "Truss-Loops" Against the Channel

It is important to apply the sheets with loops against the channels for two reasons: (1) This furs out the lath from the channel, leaving key space for plaster and minimizing the danger of cracks in the channel line. (2) In this position, the wire is naturally guided down through an opening in the lath, whether it is inserted loop first in the form of a hairpin bend or end first as a curving loop.

**Plaster Grounds**—Super - Bostwick "Truss - Loop" Lath may be plastered in any depths of grounds ordinarily used with other lath.

**Doubling Back**—This lath is well adapted to doubling back with brown coat before scratch coat is fully set. This saves moving scaffolds and means harder, better plaster.

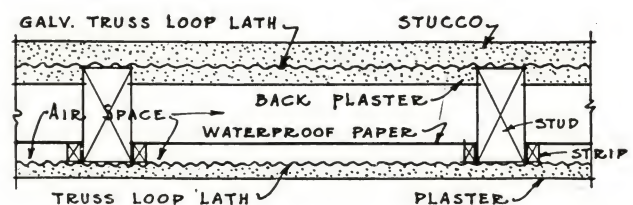
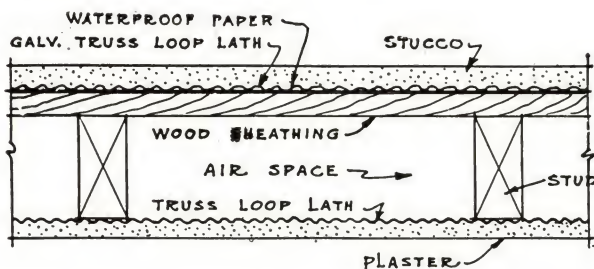


Bostwick Lath on Jamestown, N. Y., school. More than 43,000 yards of Super-Bostwick "Truss-Loop" Lath and Bostwick Channelform Lath were used for ceilings, walls, and floor reinforcement in this building

## Details of Construction with Wood Sheathing and Back Plaster Lathing

For a plaster base over wood sheathing "Truss-Loop" is ideal because furring is unnecessary. By applying the lath with the loops against the sheathing the lath is furred out, leaving space for a strong plaster key.

**For Back Plastering**—"Truss-Loop" adds its inherent structural strength and braces the structure. For construction of a garage, or similar type, the studs can be spaced 24" O. C. and "Truss-Loop" nailed and plastered both sides, giving a strong fire-resistant wall.





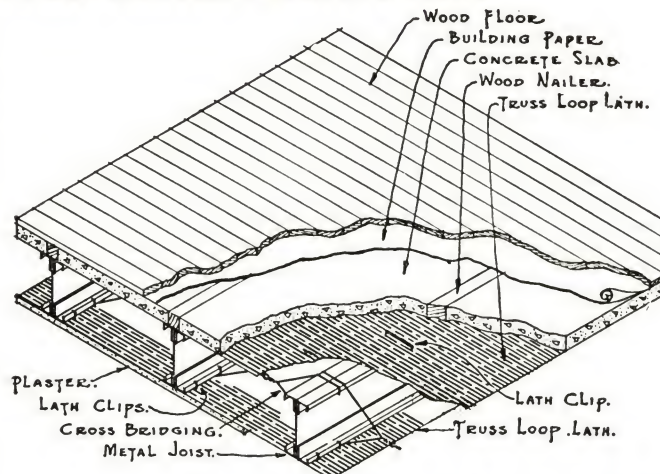
## BOSTWICK LATH FOR LIGHT SLAB CONSTRUCTION

Exhaustive tests (see below) both in the laboratory and on actual installations have proved the desirability of light slab construction with metal lath used as reinforcement and centering. Thousands of completely satisfactory installations attest to the fact that this is an entirely practical method for light slab work. Bostwick offers lath and accessories specially adapted to this purpose.

### SUPER-BOSTWICK "TRUSS-LOOP" LATH For Light Slab Construction

The Super-Bostwick principle of lath fabrication has had notable success in providing centering and reinforcement for light slab construction. Early installations of this type were made with standard Bostwick "Truss-Loop" Lath, identical with that used for a plaster base. A rigid series of tests by the Building Department of New York City resulted in approval for this lath in slab construction within the boundaries of Greater New York and it has been widely used in other localities, with uniformly good results.

A test of Bostwick "Truss-Loop" Lath as floor lath supported on 2-ft. centers in a 2-in. concrete slab was made at Carnegie Institute. A load of 1200 lbs. per sq. ft. was applied—a test far beyond the reasonable requirements for the slab. Examination showed no cracks, slipping or deflection.



Clipping lath to joist with Special Bostwick Clip Tool

Under side of a section of Bostwick Channelform in place



Approved method of wheeling and spreading of concrete from dumping board

### BOSTWICK CHANNELFORM LATH Specially Designed for Floor Reinforcement

Bostwick Channelform Lath is furnished in standard weights of 4.5 lb., 6.0 lb., and 6.75 lb. per sq. yd.

Bostwick Channelform Lath is an improvement on Super-Bostwick "Truss-Loop" for floor reinforcement purposes. It is identical except that the sheet is offset laterally, so that every other longitudinal section is raised to give it a channel-like section which further stiffens the sheet.

Bostwick Channelform, the stiffest lath for floor slab construction, supports the green concrete during the setting period with minimum deflection. Channelform's evenly distributed resistance withstands the strains incident to construction without buckling or abnormal deflection. Workmen will occasionally step on the floor between joists. In the case of less rigid laths, these strains cause buckling or marked deflection, but with Channelform their effect is scarcely noticeable.

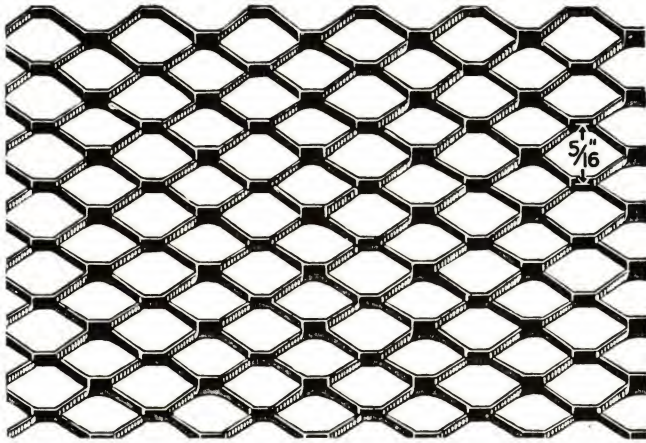
In common with Super-Bostwick "Truss-Loop," Channelform retains all but a small percentage of grout in the concrete. Grout losses seriously weaken the floor slab, as the seepage carries with it a high percentage of the cement. The uniformly high supporting strength shown in test slabs over Super-Bostwick "Truss-Loop" or Channelform is due, in large measure to the fact that the concrete has not been impaired by these losses.



# BOSTWICK JUNIOR EXPANDED METAL LATH

## A Small [5/16 In.] Metal Lath of the Diamond Pattern

The  $\frac{5}{16}$ -in. mesh size of Bostwick Junior Expanded Lath is the scientifically correct size for a diamond pattern lath. The meshes are large enough to grip the plaster firmly and form an even, rigid wall, yet small enough to provide all the special advantages of a small-mesh lath. Bostwick Junior is unexcelled as a diamond-type, small-mesh lath.



### Sizes and Weights

Bostwick Junior Lath is furnished in standard 24 x 96-in. sheets, nine sheets to the bundle, equivalent to 16 sq. yds. Weights: 2.2 lb., 2.5 lb., 3.0 lb., 3.4 lb. in painted steel; 2.5 lb., 3.4 lb. in galvanized; 3.0 lb., 3.4 lb. in copper alloy, and 3.4 lb. in Toncan metal or Armco Ingot iron.

### A General Purpose Lath

Bostwick Junior Expanded Metal Lath is a general purpose lath, ideal for a large proportion of plastering jobs. It is particularly suited for use in partitions, suspended ceilings, coverwork and 2-in. non-bearing plaster partitions.

A small-mesh lath of the diamond type, it possesses great advantages over the older types of diamond-mesh laths. Its 3,000 more meshes to the sheet plus the  $\frac{5}{16}$ -in. mesh size gives it good plaster keying qualities.

### Ideally Suited for 2-In. Partitions

Bostwick Junior Expanded Lath has qualities which make it the outstanding lath for economical 2-in. plaster partition work. Such partitions are staunch and have a high rating for sound resistance. Their outstanding practical advantage, aside from moderate first cost, is

their saving of floor area, amounting in most cases, to one square foot per five lineal feet of partition.

Since the lateral resistance of the lath is not highly important in this type of partition, economy usually dictates the use of the lightest weight of Bostwick Junior, weighing 2.2 lbs. per yd. Customary practice is to suspend it on  $\frac{3}{4}$ -in. channels, spaced 12 in. on centers, with an anchor channel screwed to the door buck, where a wooden buck is used. Skimping the



*Post Office, Warren, O., lathed throughout with Bostwick Niles Junior Expanded Lath. Architects, Keich & O'Brien*

thickness of the partition to conform with the thickness of a planed 2 x 4 in. buck is not recommended.

This construction is widely accepted in commercial and apartment construction and has an increasing field in home building. The fact that it offers no recess for flames is an element of fire safety.

### Bostwick Junior as a Corrugated Lath

Bostwick Junior can be furnished with an offset or crimp, making it an ideal corrugated or self-furring lath, for work over wide bearings, or over sheathing or other flat surfaces.



*Bostwick Niles Expanded Lath and Channel erected for 2" plaster partition in the Film Exchange Building, Cleveland, O.*



## BOSTWICK BOSS-RIB METAL LATH

### A Small Mesh Lath of the Flat Rib Expanded Type

#### A Superior Small Mesh Lath

Bostwick Boss-Rib Metal Lath is a superior, small-mesh, flat-rib type of expanded lath. Made on specially designed Bostwick equipment, it is noted for its accurate fabrication and correct distribution of metal to give maximum strength and stiffness.

#### Sizes and Weights

Bostwick Boss-Rib comes in standard 24x96-in. sheets, nine sheets to the bundle, equivalent to 16 sq. yds. Weights: 2.75, 3.0, 3.4 and 4.0 lb. painted steel; 3.4 lb. in copper bearing or galvanized and 3.4 lb. in Toncan metal or Armco Ingot Iron.

#### Boss-Rib is More Than a Flat-Rib Lath

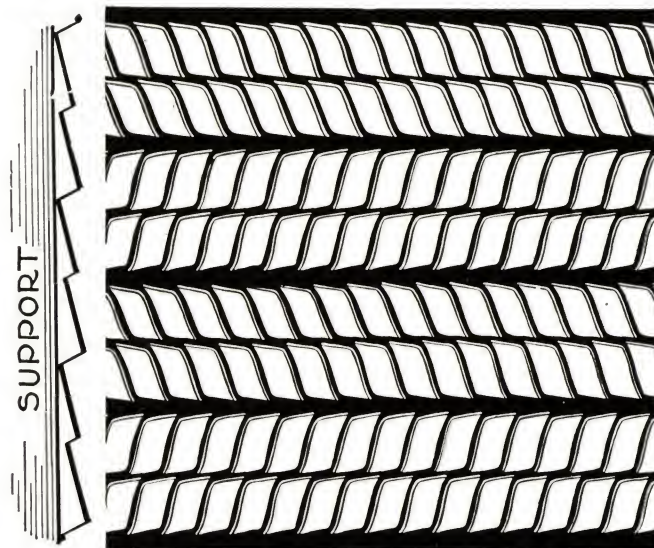
Boss-Rib is classified as a flat rib lath but its longitudinal ribs give more than ordinary stiffness due to their oblique position. It has true plaster saving qualities as the ribs so placed tend to spread the mortar instead of cutting it. In spite of the space taken by the ribs, it has between 4 and 5 per cent more openings than junior mesh and the meshes are correspondingly smaller.

#### Fills Every Requirements as an Expanded Metal Lath

Boss-Rib will be accepted where specifications call for expanded lath. Due to the fact that it has a greater number of openings, or keys, per yd. than any other expanded lath, it combines the advantages of the smallest mesh lath with the features of a rib lath.

#### An Ideal General Purpose Lath

Boss-Rib is the ideal general purpose lath—economical, rigid and a substantial plaster saver. Its ease of handling makes it a favorite with workmen. In a wide choice of weights and materials, it is adaptable to almost every lathing requirement.



#### Boss-Rib is Self-Furring

The flat rib's oblique angle to the plane of the sheet makes Boss-Rib a self-furring lath, suitable for application over any flat surface, such as the replastering of ceilings. This feature also enables it to give a better bond over studs, beams, channels or other supports.

#### The Mesh Design Prevents Running and Sagging of Plaster

The projecting rib of Boss-Rib Metal Lath acts as a strike-off, helping to equalize the application of the scratch coat over various parts of the surface. The rib acts as a shelf for the wet plaster and prevents running or sagging. Due to the angle of the ribs and the cross strands the plaster curls around and imbeds them instead of dropping on the reverse side.

#### Its Rigidity Prevents Bellying and Buckling

The sheets of Boss-Rib are so stiff one man can easily handle and erect them. Their rigidity makes stretching unnecessary and prevents bellying and buckling between supports. Frequent testimony reports that 2.75 lb. Boss-Rib is more rigid in construction than 3.4 expanded lath. Selvage edges interlock, saving time and material in side laps.

#### Close-Meshing Qualities Simplify Storage Problems

Boss-Rib nests closely in stock and takes up comparatively little room in storage. Sheets are uniform in size. Bundles can be easily handled by one man.



*Ornamental ceiling in Franklin Institute, Philadelphia, plastered over Bostwick Boss-Rib Metal Lath. (Below) An exterior view of the Franklin Institute. Architect, John T. Windrain*



## BOSTWICK RIB EXPANDED METAL LATH— $\frac{3}{8}$ " and $\frac{3}{4}$ " RIB

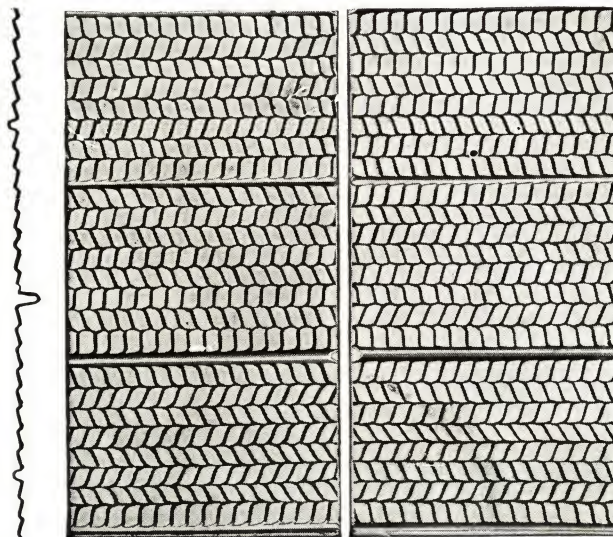
The demand for an expanded lath with augmented rigidity is supplied in Bostwick Rib Expanded Laths. Leaders among products of their types, they may be relied upon for correctly rectangular sheets of uniform fabrication, effectively stiffened by true, straight ribs.

Bostwick  $\frac{3}{8}$ -in. Rib Expanded Lath is preferred as a plaster base on wide spacings and as a stiff reinforcement in floor and ceiling construction with steel joists. Side ribs may be nested forming an economical but effective overlap. Much used as a floor reinforcement and likewise for suspended ceilings, where its rib not only increases stiffness but furs out the lath from the channel, improving the plaster key.

Bostwick  $\frac{3}{4}$ -in. Rib Lath has ribs spaced 4.8 in. apart, 6 to the sheet and is used mainly as floor slab reinforcement. We do not recommend  $\frac{3}{4}$ -in. Rib as a plaster base.

### Sizes and Weights

The  $\frac{3}{8}$ -in. Rib is furnished in standard size sheets in 3.0 lb., 3.4 lb., and 4.0 lb. per sq. yd. The  $\frac{3}{4}$ -in. Rib is furnished in .50 lb., .60 lb., .75 lb. per sq. ft.



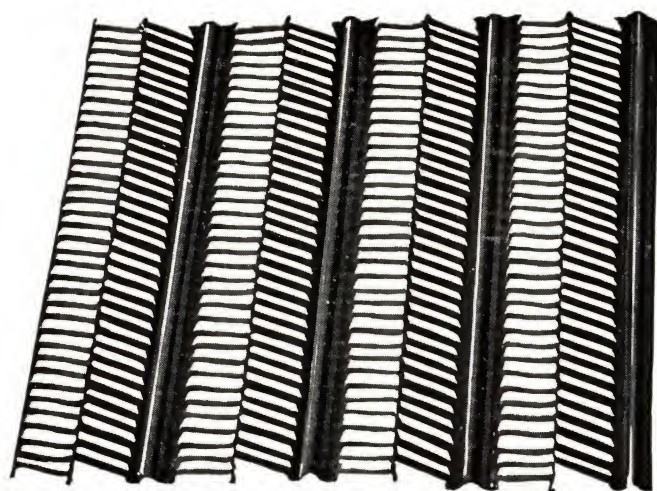
## BOSTWICK VEE-RIB METAL LATH

### A Superior Flat-Rib Lath with Extra Stiffness

A Flat-Rib Lath, of superior stiffness with accurate edges that minimize overlap and which can be plastered more economically than any other lath except Bostwick "Truss-Loop" or Boss-Rib Metal Lath.

### Sizes and Weights

Bostwick Vee-Rib Lath is manufactured in four weights —2.75, 3.0, 3.4 and 4.0 lb. painted and 3.4 lb. in copper bearing or galvanized. Sheets are 24 x 96-in. in size, or 1  $\frac{7}{9}$  yds. They are packed 9 sheets in a bundle or 16 sq. yds.



### Distinctive Corrugations Produce Extra Rigidity

The corrugations of Bostwick Vee-Rib, shown in the profile, give the lath a stiffness not found in most flat ribs. The vertical position of the intermediate rib, as well as the vanes of metal between ribs, improve the plaster holding quality.

### Advantageous in Wood Construction

Bostwick Vee-Rib Lath offers every advantage in wood construction, being easy to handle, easy to nail, self-furring over flat surfaces and adapted to moderately wide spacing of supports.



**A General Character Stud, But Made Especially for Super-Bostwick Partitions**

Supplementing its line of lathing products, Bostwick manufactures an unusually staunch steel stud. Especially designed to use with Bostwick "Truss-Loop" in a complete partition system (see facing page), it is a general purpose stud of outstanding advantages that may be adapted to any partition requirement.

Made of four upright 16-gauge steel angles of  $\frac{1}{2} \times \frac{3}{8}$  in. section, welded back to back, joined together horizontally by welded steel flats, it is extremely rigid and easy to install. The length of the flats determines the depth of the stud, which is furnished from 2 in. up, according to the architect's specifications.

**Lath Can Be Nailed or Tied  
Grounds May Be Nailed**

A distinctive feature of the Bostwick Steel Stud is that lath may be nailed or tied over it with equal facility. Where custom or preference calls for a wire tie, the Bostwick Steel Stud offers a firm, convenient frame for the tie. But the cleft between the angles is just wide enough to admit a special nail, furnished for the purpose, which is wedged tightly under the impact of the hammer. The lather who prefers to nail the lath will be able to do so just as conveniently and rapidly as in the case of a wooden stud. Nailing is more rapid than tying and the stud therefore offers a saving in labor.

However the lath is attached, there is a distinct advantage in the ability to nail screed or ground strips to stud, insuring perfect contact.

**Cabinet Work May Be Nailed to the Stud or Partition**

In cases where it is desired to build cabinet work against stud construction over a portion of the wall area, it may be conveniently nailed to Bostwick Steel Studs. This is accomplished either by nailing the fixture itself or the furring to which it is attached.

**No Special Studs Required for Door Bucks**

Where wooden door bucks are used, Bostwick Steel Studs can be furnished, if desired, with their flats punctured for fastening the stud to the door buck, a method which minimizes the danger of plaster cracks around the door. Where metal bucks are used, the usual means of attachment is employed.

**Tracks and Saddle Clips for Attachment at Ceiling and Floor**

A track is provided for ceiling attachment, which is similar to the stud, except that two (rather than four) angles are employed and its flat cross pieces are perforated for nailing, should nailing be required. In most instances it will be tied to the ceiling channels. Over this track, at required spacing, is suspended an inverted "U" shaped shoe (patent pending), the descending side of which are channels which fit around the sides of the stud and are wired to it. This shoe is slotted to enable nailing into stud.

The base of the stud is secured by means of a saddle clip, fitting over the cross piece at the bottom and perforated for stub nails, where the floor is of cinder concrete, pre-cast gypsum, etc. Where the floor is of hard concrete, it is recommended that the ceiling track and shoe be used for the floor. The slot in the shoe permits nailing of base grounds.

**Space for Conduits and Plumbing**

The Bostwick Stud offers ideal freedom in the installation of electric conduits and plumbing. The interior of the partition is open both vertically and horizontally. Cross members of the stud afford convenient means of support and attachment. This greatly facilitates work of mechanical trades.

**Advantages Installed With  
Super-Bostwick Truss-Loop Lath**

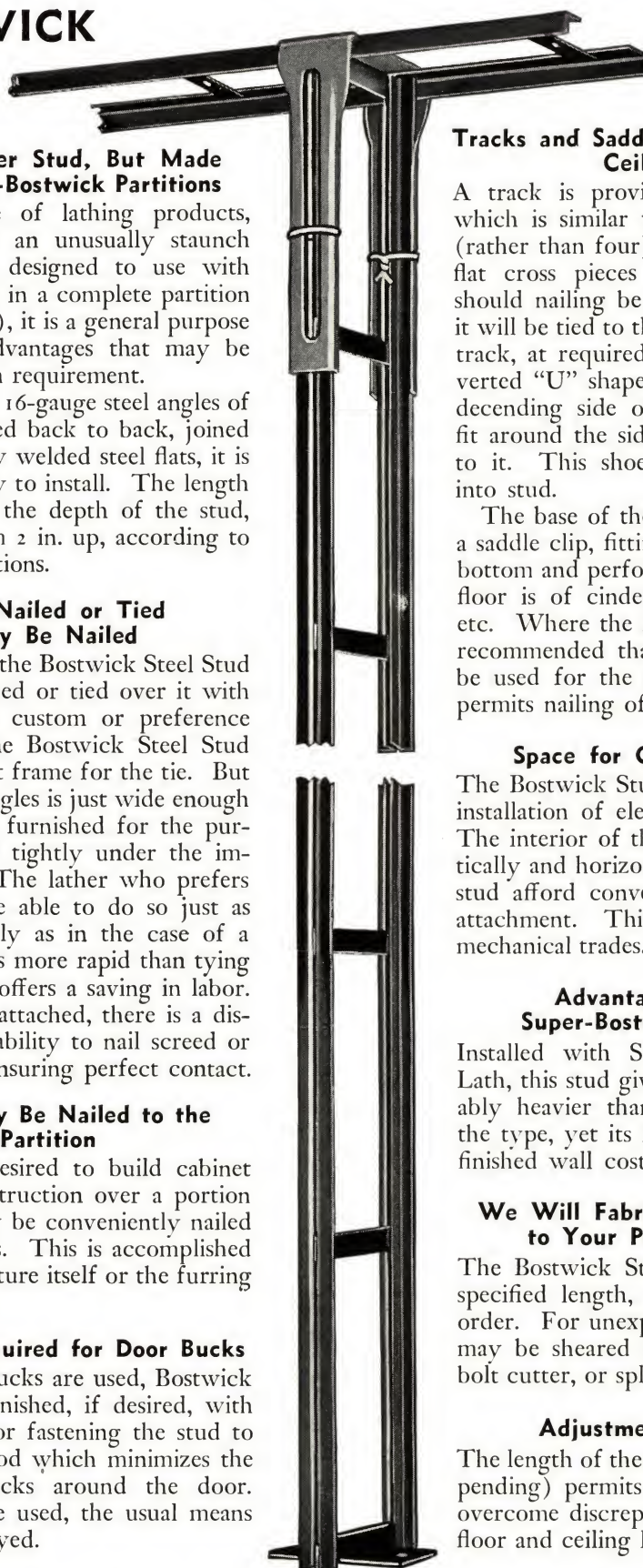
Installed with Super-Bostwick "Truss-Loop" Lath, this stud gives a plaster backing considerably heavier than comparable installations of the type, yet its incidental economies give it a finished wall cost lower than competitors.

**We Will Fabricate Bostwick Steel Stud  
to Your Particular Requirement**

The Bostwick Steel Stud is furnished in any specified length, specially fabricated for each order. For unexpected conditions, however, it may be sheared to the desired length with a bolt cutter, or spliced by tying with wire.

**Adjustment for Uneven Floors**

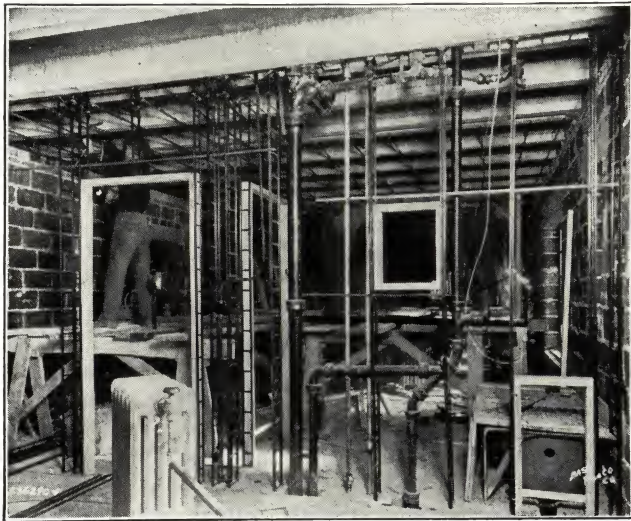
The length of the special Bostwick Shoe (patent pending) permits an adjustment up to 3 in. to overcome discrepancy in length due to uneven floor and ceiling levels.



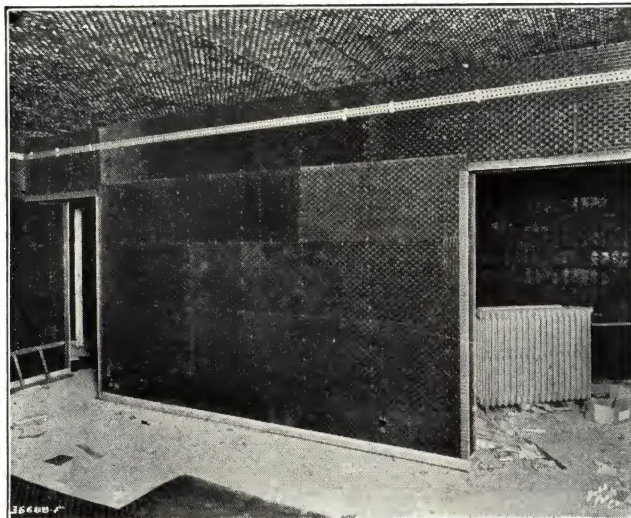


# BOSTWICK SYSTEM PARTITIONS

MADE FROM BOSTWICK STEEL STUD AND SUPER-BOSTWICK "TRUSS-LOOP" LATH



*Note convenient disposal of pipe and ducts*



*Sharp eyes will see nail heads in this view*



*Area shown above after plastering*

## True Surfaces—Easy Erection—Fire Resistance

The combination of the Bostwick Steel Stud and Super-Bostwick "Truss-Loop" Lath provides a partition system of unquestioned superiority. Its finished surfaces will be accurate, rigid, and exceptionally free from crack or strain. Both the stud and lath are mutually adaptable and therefore easy to install. The finished partition is fire resistant, and has been accepted for use in fire-zones of many cities.

## Specially Fabricated for Every Installation

The Bostwick System Partition is equipped only with Super-Bostwick "Truss-Loop" Lath and is specially fabricated for all installations, with view to actual lengths and wall thicknesses required. However, where required, the stud may be readily cut with a bolt cutter, or may be spliced with wire ties.

## Comparisons Are Favorable to Bostwick Partitions

Compared with wood framed partitions, the Bostwick System avoids warping strains which are a potent cause of plaster cracks. Compared with tile partitions, it saves considerable floor load and deadens sound more effectively. Compared with either, it affords a greater freedom of arrangement and ease of erection for ducts, pipes and conduits.

No metal lath product has as long a record of successful installations as has Bostwick "Truss-Loop." One of the earliest of metal laths, it is the oldest in continuous use. Its employment in any project is the ultimate assurance of good faith toward the owner and the public.

## APPROVED ERECTION METHODS

For the best method of installation, there are seven definite steps, to be followed in numerical order.

(1) The floor layout should first be made in accordance with the architect's plans.

(2) The ceiling layout should then be determined by plumbing in accordance with the floor layout.

(3) The ceiling clips or hangers should then be placed over sections of ceiling track and properly spaced, in advance of their erection.

(4) Ceiling track is then erected, being attached to ceiling furring, steel joists, concrete joists or whatever construction is afforded.

(5) The floor layout should then be marked for the spacing of studs.

(6) Studs should then be inserted and securely wired to the ceiling clips.

(7) The floor clip should then be inserted and securely nailed to the floor. If the floor is of concrete, a concrete stub nail must be used.

*Three stages in the erection of Bostwick System Partitions at Bauer Apartments, Indianapolis, Ind.*



## **BOSTWICK SYSTEM PARTITIONS—Cont.**

### **Lathing**

Super-Bostwick "Truss-Loop" Lath shall be wired or nailed to the steel studs, by using a special Bostwick nail. These nails will be shipped with the studs.

### **Lath Position**

Super-Bostwick "Truss-Loop" Lath should always be applied with its elevated trusses against the stud or other support. This position is a better working surface. It saves plaster and gives a better key. When the alternative method of application by tying is used, it is especially important that the "truss loops" be against the stud, since the clefts in the lath form a better guide for the returning end of the wire.

### **BOSTWICK PARTITIONS ARE ADMIRABLY SUITED FOR DOUBLING BACK OPERATIONS**

Because of Super-Bostwick's great rigidity and unique mechanical construction, Bostwick Partitions are ideal for the plastering operation known as doubling back.

Much of the economy achieved in their use is due to this practice. It saves time and labor otherwise expended in the removal and re-erection of scaffolds. Moreover, there is every reason to believe that the bond of a brown coat over a moist scratch coat is superior to that in "bone dry" plastering. The resulting plaster crystal is better integrated and the danger of cleavage minimized by doubling back.

### **Effective Sound-Deadening Qualities**

With its ordinary construction, the Bostwick Partition provides more effective sound deadening than wood stud, tile or masonry partitions of equal thickness. However, two methods of increasing the resistance to sound are indicated in the details. In one, the studs are staggered, unconnected. This provides a very satisfactory sound-resisting partition and is recommended for party walls between apartments, corridor walls, etc. Somewhat more expensive, but much more efficient, is the same partition with a felt blanket erected between studs as detailed.

## **INSTALLATION METHODS**

### **Ceiling Attachment**

Ceiling track consists of two angles, joining by a flat which is punctured for nailing, where nailing is necessary. Over this are spaced the special Bostwick Shoe (patent pending) with channel shaped descending members which fit around the sides of the stud and are wired to it. Its length suffices for adjustment up to 3 in., to take care of uneven floor levels.

### **Floor Attachment**

Floor attachment is secured by means of a saddle clip fitting over the lowest cross member, as shown in the drawing. It has holes for nailing to wood or concrete floor. If concrete is very hard, use track as mentioned on page 17.

### **Internal and External Angles**

See the details on facing page showing method of setting studs for both internal and external angles. This arrangement makes a very rigid corner connection.

### **Door and Other Openings**

The attached detail shows method of erecting studs in connection with a door or other opening. By placing

the stiffening member (a  $\frac{3}{4}$ -in. channel iron) as detailed, the door gains considerable rigidity and ability to resist shocks. No door head cracks have occurred, to date, on any Bostwick Stud installation.

### **SPECIFICATIONS**

Steel Studs shall be double angle type as manufactured by The Bostwick Steel Lath Company, Niles, Ohio, or approved equal, and shall weigh not less than 800 lbs. per 1000 lineal feet.

Studs shall be set not over  $23\frac{3}{4}$  in. on centers and lathed both sides with Super-Bostwick "Truss-Loop" Lath, Painted, weighing 4.5 lbs. per sq. yd., except where wide pipe vent spaces are shown on plans, when two sets of studs shall be erected and lathed one side only.

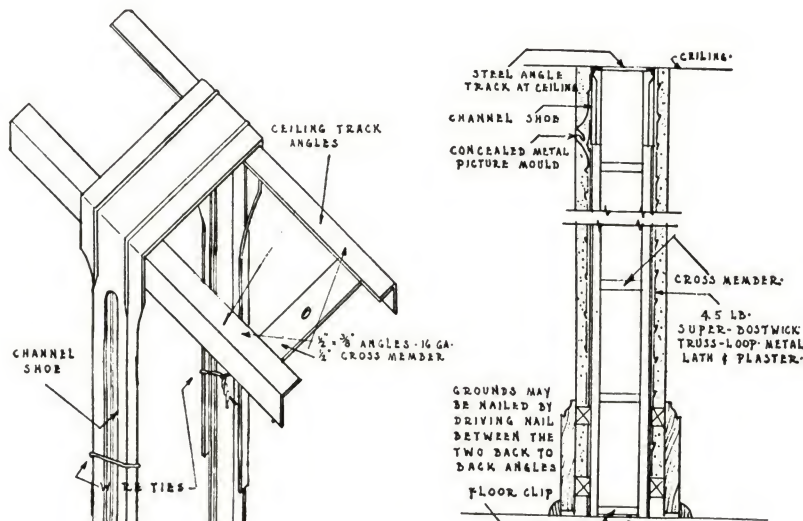
Lath shall be either wired or nailed to studs using nails as furnished by The Bostwick Steel Lath Company.

All vertical and horizontal internal angles should be shoed with Cornerite (strips of Expanded Metal Lath bent at right angles).

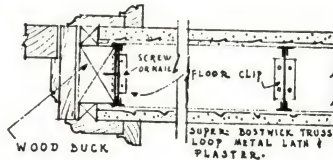
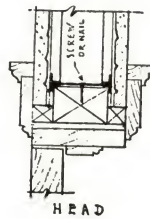
Ceiling track and shoes and floor clips shall be used in accordance with manufacturer's details, specifications and directions.



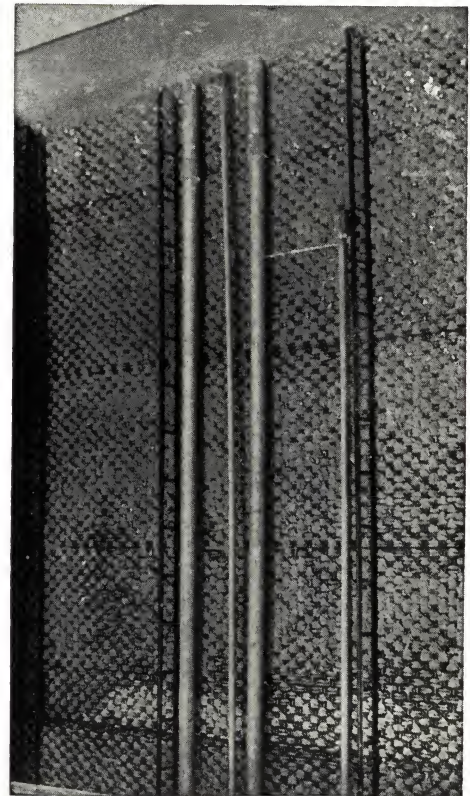
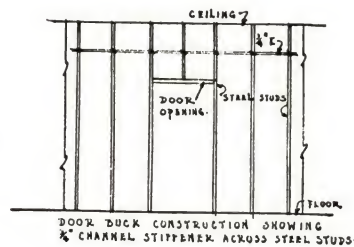
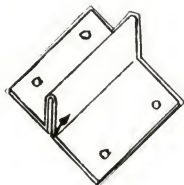
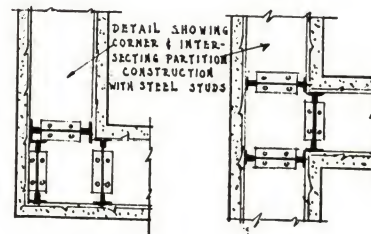
# INSTALLATION DETAILS of the Bostwick Steel Stud



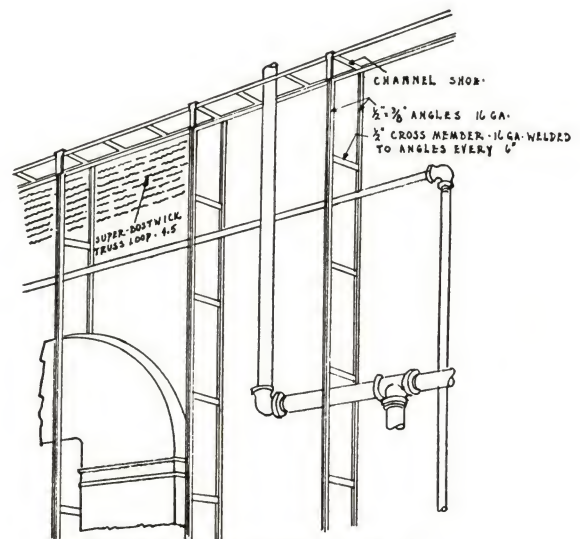
FLOOR & CEILING END OF STEEL STUD  
SCALE 3"=1'-0"



STEEL STUD USED WITH WOOD DOOR FRAME OR METAL DOOR FRAME



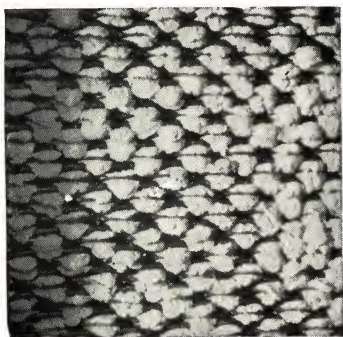
Illustrating the ease with which pipes and conduits are installed in Bostwick Steel Stud Partitions



DETAIL SHOWING SPACE WITHIN THE STUDS FOR ENCLOSING DUCTS, PIPES CONDUIT, ETC.



## THE USE OF SUPER-BOSTWICK "TRUSS-LOOP" LATH ON OLD CEILINGS

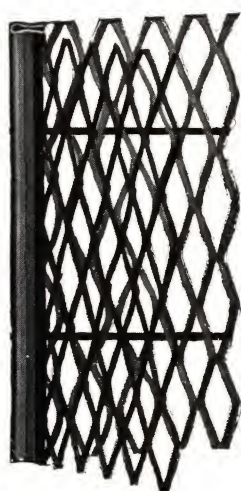


*Showing ample key at  
back of Super-Bostwick  
"Truss-Loop" Lath*



Where old ceilings are in need of repairs, due to cracks, sagging, or falling plaster, the use of Super-Bostwick "Truss-Loop" Lath has notable advantages. The outstanding feature is that it eliminates all need for removing the old plaster. This is important, since the removal of plaster produces a fine, pervasive dust which, in a home or any furnished building, finds its way into food, fabrics and furniture and is often tracked about the premises for weeks. The Bostwick method is to leave the old plaster in place and to cover the ceiling with Super-Bostwick "Truss-Loop" Lath, with trusses against the old surface. It is nailed to the studs with wire nails at least two inches in length. Plaster is applied to the lath in the usual manner. The advantages of Super-Bostwick "Truss-Loop" Lath in this operation are due (1) to its self-furring quality when erected in the manner prescribed, giving ample key for the new plaster and (2) its stiffness which supports and levels any sag in the old plaster, producing a level plastering surface, regardless of the irregularities of the support.

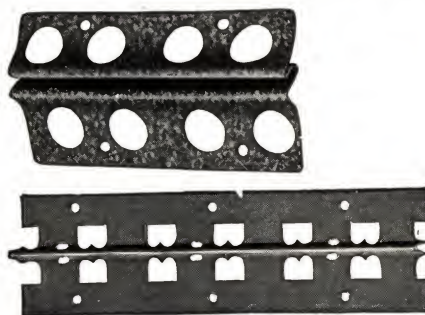
## BOSTWICK METAL LATH ACCESSORIES



*Expanded*



*Truss-Wing*



### METAL BASE BEAD

Especially efficient base bead for heavy service on uneven grounds. Extra plaster keys in the flange increase the holding power and the gimped edge gives a solid nail hold in any surface depressions without changing the lie of the bead. Standard lengths, 8 ft.; shipping weight, 180 lbs. per 1,000 ft.

### BOSTWICK WALL PLUG

Approved for all Federal work. An ideal method of attaching interior trim to masonry walls. Made of heavy galvanized stock, the Bostwick Wall Plug is sealed against mortar by closed edges. Supports weight without flattening and everlastingly holds the nails. Lengths, 2 7/8 inches; width, 2 1/4 inches; packed 250 to carton; shipping weight, 25 lbs.

### INVISIBLE PICTURE MOLDING

This molding can be used in all types of buildings and applied before plastering. It is invisible when finished, except for hook opening. It can be applied to any plaster base. Comes with straight edge preserved by crating, in 10 ft. lengths. Packed in 1000-ft. bundles, weighing 225 lbs.

### BOSTWICK CORNER BEAD

Bostwick "Truss-Wing" has earned widespread popularity through its rigidity, true fabrication and certain working qualities which appeal to the craftsman. Stiffness is derived from its corrugated wing. Positions of the "BB" perforations insure keying of plaster close to the bead. Placed as they are in pairs, they facilitate snipping of the wing for curved applications such as arches. Bostwick Expanded, Bull Nose, Wide Flange and Scalloped Corner Bead are standard products acceptable for their specific purposes.

All Bostwick Corner Bead is furnished crated in order to preserve its straightness. Furnished in lengths of 6 ft., 7 ft., 8 ft. 6 in., 9 ft., 10 ft., 11 ft. and 12 ft. The standard package is about 1,000 ft.



## SUPER-BOSTWICK "TRUSS-LOOP" LATH AN IDEAL BACK-UP FOR CERAMIC TILE

Aside from its excellence as a plaster base, Super-Bostwick "Truss-Loop" Lath enjoys preference by hundreds exacting tile applicators as a reinforcement and backing for tile applications. This favor was extended to the original lath in the early nineties and has been strengthened by successive improvements in the product which have produced the Super-Bostwick "Truss-Loop" of today.

An instance of this outspoken preference comes in the form of a letter addressed to Bostwick by Clarence W. McCaulley, when president of the Tile & Mantel Contractors Association, saying, "I desire to advise that it is the opinion of the writer \* \* \* that "Truss-Loop" Metal Lath is the best back for tile on wood construction that is manufactured in this country: and I would go on record as recommending this lath to all architects and owners who desire a high class, permanent installation of tiles."

**Requirements**—Lath used in the backing of tile must withstand—(1) the impact of the mallet driving tiles into place during installation, and (2) the burden of an unusually heavy application during long years of service, during which any disturbance to the backing is likely to result in cracking at joints.

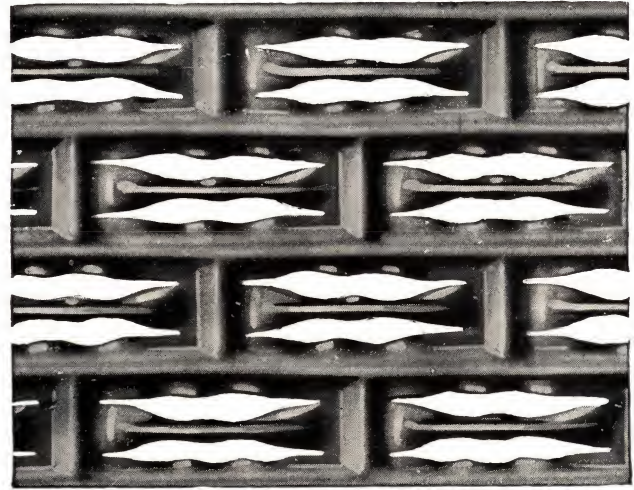
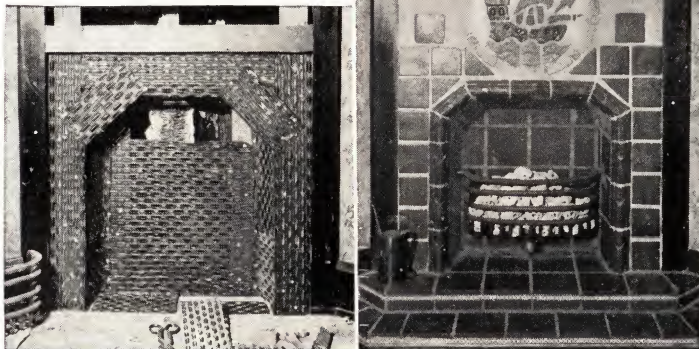
**Method of Application**—A scratch coat of Portland cement and sand is first applied, followed usually by a straightening coat. Over this the tiles are applied in an adhesive coat, either by (1) floating or (2) buttering. In the former case, the adhesive cement is spread over an area in advance of the tile application and the tile forcibly applied to its surface. In the latter, each tile is backed with cement and forced into place separately.

### BASIS OF PREFERENCE

**Lath Is Self-Furring**—Applied with trusses against the support (as it always should be), Super-Bostwick "Truss-Loop" Lath furs out and affords ample key over studs or channels, where single plane reinforcement would give little key. In instances where it is applied over a considerable area of sheathing, as the back of a cupboard enclosure, the key is adequate for every purpose.

(Below) "Truss-Loop" installed as back-up for tile fireplace.

(Right) Finished fireplace



**Incomparably Stiffer**—Weighing  $4\frac{1}{2}$  lbs. per sq. yd., Super-Bostwick "Truss-Loop" Lath is more rigid than any lath otherwise adapted for the purpose. Its rigidity is due to a system of raised "trusses" and a double system of stiffening ribs running longitudinally and transversely of the sheet. These insure that the mallet blows of tile setting will produce minimum vibration in the cement coat.

**Saves One Day's Time**—Super-Bostwick "Truss-Loop" Lath is noted in the plastering trade as the one lath over which "doubling back" with a brown coat over the newly applied scratch coat is good practice. This advantage is highly important in tile applying. The typical tile job is a bathroom of moderate size which can be lathed by one man in a day. Another day suffices for applying the scratch and straightening coats, permitting him to set tile on the third day. In more limited areas, he can often finish lathing and two coats of cement in one day, permitting tile setting on the second day. In either case, he avoids a separate day's attention to the application of the straightening coat.

### CONSTRUCTION HINTS

**Need of Thoroughness**—In no lath application is substantial construction more important than in tile work. Supports should be not more than 16 in. on centers; plenty of nails used in nailed work, ample ties in tied applications.

**Carry Around Corners**—While shoeing with cornerite will justify butted corners in ordinary plastering, for tiled work it is recommended that lath be bent around all corners.

**For Tiled Floors**—A cement slab laid over matched flooring depressed below the level of the finished floor and protected by tar paper affords an excellent base for floor tile. Reinforcement with Bostwick Tiles Expanded Lath is recommended, the lath to be pressed into the moist base coat and the straightening coat applied over it.



THE  
*Bostwick*  
STEEL LATH COMPANY

## COMPLETE LINE OF METAL LATH AND LATH ACCESSORIES

SUPER-BOSTWICK "TRUSS-LOOP" LATH

BOSTWICK CHANNEL FORM LATH

BOSTWICK JUNIOR EXPANDED LATH

BOSTWICK BOSS-RIB METAL LATH

BOSTWICK V-RIB METAL LATH

BOSTWICK RIB-EXPANDED LATH

BOSTWICK STEEL STUDS

BOSTWICK SYSTEM PARTITIONS

BOSTWICK CORNER BEAD

BOSTWICK METAL BASE BEAD

BOSTWICK WALL PLUG

INVISIBLE PICTURE MOULDING

**THE BOSTWICK STEEL LATH COMPANY**  
**NILES, OHIO** Eastern Warehouse **PHILADELPHIA, PA.**

*Photograph of Auditorium of Senior High School, Jamestown, N. Y., plastered over Super-Bostwick "Truss-Loop" Lath. Architects, Beck & Tinkham*



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